

What we claim is as follows:

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- 5 1. Process for producing a cold-rolled strip or sheet of steel with good deforming properties, which is subjected to recrystallizing annealing and, if appropriate, a dressing operation after hot rolling, coiling and cold rolling and has a bake-hardening potential after a subsequent deformation and for a subsequent temperature treatment, characterized in that the recrystallizing annealing is carried out in a bell-type furnace while coiled and in that the strip or sheet is subjected to cooling at a cooling rate of  $\geq 1^\circ\text{C/s}$  after the recrystallizing annealing from a temperature  $T$  of  
15  $200^\circ\text{C} \leq T \leq A_1$ .
  2. Process according to Claim 1, characterized in that the temperature is  $T \geq 450^\circ\text{C}$ .
  - 20 3. Process according to Claim 1 or 2, characterized in that the strip is cooled to  $\leq 150^\circ\text{C}$  after the recrystallizing annealing while coiled and subsequently subjected to brief annealing at the temperature  $T$  for an annealing period of  $\leq 20$  minutes by reheating the uncoiled strip.  
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  4. Process according to one of Claims 1 to 3, characterized in that the annealing period of the brief annealing is chosen between 2 minutes and  
30 5 minutes.
  5. Process according to one of Claims 1 to 4, characterized in that the cooling from the temperature  $T$  is performed at a cooling rate of  
35  $\geq 2^\circ\text{C/s}$ .
  6. Process according to one of Claims 1 to 5, characterized in that the strip or sheet is dressed before the brief annealing.
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7. Process according to one of Claims 1 to 6, characterized in that the strip or sheet is dressed after the brief annealing.
8. Process according to one of Claims 1 to 6, characterized in that hot galvanizing of the sheet or strip is used as part of the brief annealing.
- 10 9. Process according to one of Claims 1 to 8, characterized in that a steel with a C content of  $\geq 0.02\%$  is used.
- 15 10. Process according to one of Claims 1 to 9, characterized by the use of a steel grade which has been selected from the steel grades St12 to St15, ZStE and ZStE1.
- 20 11. Cold-rolled strip or sheet with good deforming properties, which can be produced by the process according to one of Claims 1 to 9, with a bake-hardening potential after a subsequent deformation and for a subsequent temperature treatment and with a C content of  $\geq 0.02\%$  and with cementite precipitations in the matrix and at the grain boundaries.
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- 30 12. Strip or sheet according to Claim 11, produced from a steel of the steel grade St12, St13, St14 or St15.
13. Strip or sheet according to Claim 11, produced from a steel of the steel grade ZStE1.
- 35 14. Strip or sheet according to Claim 11, produced from a steel of the steel grade ZStE.

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15. Strip or sheet according to one of Claims 11 to 14, characterized in that it has a hot-galvanized surface.

5 16. Strip or sheet according to Claim 15, characterized in that it is dressed after the hot galvanizing of the surface.

Sub 10 73  
17. Stove-enamelled sheet, produced from a strip or sheet according to one of Claims 11 to 16, with a yield strength significantly increased by the stove-enamelling.

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